

Met	Asp	Trp	Pro	His	Asn	Leu	Leu	Phe	Leu	Leu	Thr	Ile	Ser	Ile	1	5	10	15
Phe	Leu	Gly	Leu	Gly	Gln	Pro	Arg	Ser	Pro	Lys	Ser	Lys	Arg	Lys	20	25	30	
Gly	Gln	Gly	Arg	Pro	Gly	Pro	Leu	Ala	Pro	Gly	Pro	His	Gln	Val	35	40	45	
Pro	Leu	Asp	Leu	Val	Ser	Arg	Met	Lys	Pro	Tyr	Ala	Arg	Met	Glu	50	55	60	
Glu	Tyr	Glu	Arg	Asn	Ile	Glu	Glu	Met	Val	Ala	Gln	Leu	Arg	Asn	65	70	75	
Ser	Ser	Glu	Leu	Ala	Gln	Arg	Lys	Cys	Glu	Val	Asn	Leu	Gln	Leu	80	85	90	
Trp	Met	Ser	Asn	Lys	Arg	Ser	Leu	Ser	Pro	Trp	Gly	Tyr	Ser	Ile	95	100	105	
Asn	His	Asp	Pro	Ser	Arg	Ile	Pro	Val	Asp	Leu	Pro	Glu	Ala	Arg	110	115	120	
Cys	Leu	Cys	Leu	Gly	Cys	Val	Asn	Pro	Phe	Thr	Met	Gln	Glu	Asp	125	130	135	
Arg	Ser	Met	Val	Ser	Val	Pro	Val	Phe	Ser	Gln	Val	Pro	Val	Arg	140	145	150	
Arg	Arg	Leu	Cys	Pro	Pro	Pro	Pro	Arg	Thr	Gly	Pro	Cys	Arg	Gln	155	160	165	
Arg	Ala	Val	Met	Glu	Thr	Ile	Ala	Val	Gly	Cys	Thr	Cys	Ile	Phe	170	175	180	

FIGURE 1

aggcgggcag cagctgcagg ctgaccttgc agcttggcgg aatggactgg 50  
 cctcacaacc tgctgtttct tcttaccatt tccatcttcc tggggctggg 100  
 ccagcccagg agccccaaaa gcaagaggaa ggggcaaggg cggcctgggc 150  
 ccctggcccc tggcctcac caggtgccac tggacctggg gtcacggatg 200  
 aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggg 250  
 ggcccagctg aggaacagct cagagctggc ccagagaaaag tgtgaggtca 300  
 acttgcagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350  
 agcatcaacc acgaccccag ccgtatcccc gtggacctgc cggaggcacg 400  
 gtgcctgtgt ctgggctgtg tgaaccctt caccatgcag gaggaccgca 450  
 gcatggtgag cgtgccggtg ttcagccagg ttctgtgcg ccgccgcctc 500  
 tgcccgccac cgcgccgcac agggccttgc cgcagcgcg cagtcatgga 550  
 gaccatcgt gtgggctgca cctgcatctt ctgaatcacc tggcccagaa 600  
 gccaggccag cagcccagaa ccacctcct tgcaccttg tgccaagaaa 650  
 ggccatgaa aagtaaacac tgacttttga aagcaag 687

FIGURE 2

Met	Thr	Leu	Leu	Pro	Gly	Leu	Leu	Phe	Leu	Thr	Trp	Leu	His	Thr	1	5	10	15
Cys	Leu	Ala	His	His	Asp	Pro	Ser	Leu	Arg	Gly	His	Pro	His	Ser	20	25	30	
His	Gly	Thr	Pro	His	Cys	Tyr	Ser	Ala	Glu	Glu	Leu	Pro	Leu	Gly	35	40	45	
Gln	Ala	Pro	Pro	His	Leu	Leu	Ala	Arg	Gly	Ala	Lys	Trp	Gly	Gln	50	55	60	
Ala	Leu	Pro	Val	Ala	Leu	Val	Ser	Ser	Leu	Glu	Ala	Ala	Ser	His	65	70	75	
Arg	Gly	Arg	His	Glu	Arg	Pro	Ser	Ala	Thr	Thr	Gln	Cys	Pro	Val	80	85	90	
Leu	Arg	Pro	Glu	Glu	Val	Leu	Glu	Ala	Asp	Thr	His	Gln	Arg	Ser	95	100	105	
Ile	Ser	Pro	Trp	Arg	Tyr	Arg	Val	Asp	Thr	Asp	Glu	Asp	Arg	Tyr	110	115	120	
Pro	Gln	Lys	Leu	Ala	Phe	Ala	Glu	Cys	Leu	Cys	Arg	Gly	Cys	Ile	125	130	135	
Asp	Ala	Arg	Thr	Gly	Arg	Glu	Thr	Ala	Ala	Leu	Asn	Ser	Val	Arg	140	145	150	
Leu	Leu	Gln	Ser	Leu	Leu	Val	Leu	Arg	Arg	Arg	Pro	Cys	Ser	Arg	155	160	165	
Asp	Gly	Ser	Gly	Leu	Pro	Thr	Pro	Gly	Ala	Phe	Ala	Phe	His	Thr	170	175	180	
Glu	Phe	Ile	His	Val	Pro	Val	Gly	Cys	Thr	Cys	Val	Leu	Pro	Arg	185	190	195	
Ser	Val														197			

FIGURE 3

gccaggtgtg caggccgctc caagcccagc ctgccccgct gccgccacca 50  
tgacgctcct ccccggcctc ctgtttctga cctggctgca cacatgcctg 100  
gcccaccatg acccctccct caggggggcac ccccacagtc acggtacccc 150  
aactgctac tcggctgagg aactgcccct cggccaggcc ccccacacc 200  
tgctggctcg aggtgccaaag tgggggcagg ctttgctgt agccctgggtg 250  
tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300  
tacgacccag tgcccgggtgc tgcgggccgga ggaggtgttg gaggcagaca 350  
cccaccagcg ctccatctca ccctggagat accgtgtgga cacggatgag 400  
gaccgctatc cacagaagct ggccctcgcc gagtgcctgt gcagaggctg 450  
tatcgatgca cggacgggccc gcgagacagc tgcgctcaac tccgtgcggc 500  
tgctccagag cctgctgggtg ctgcgccgcc ggccctgctc ccgcgacggc 550  
tcggggctcc ccacacctgg ggcccttgcc ttccacaccg agttcatcca 600  
cgtccccgtc ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650  
ggccgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700  
tatttatgtg tatttattgt tatttatatg cctcccccaa cactaccctt 750  
ggggtctggg cattccccgt gtctggagga cagcccccca ctgttctcct 800  
catctccagc ctcagtagtt gggggtagaa ggagctcagc acctcttcca 850  
gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggtc 900  
cctgtcctgc tcccggcttc ccttacccta tcaactggcct caggccccgc 950  
aggtgcctc ttcccaacct ccttggaggt acccctgttt cttaaacaaat 1000  
tatttaagtg tacgtgtatt attaaactga tgaacacatc cccaaaa 1047

FIGURE 4

ggcagcaggg accaagagag gcacgcttgc ccttttatga catcagagct 50  
cctgggttctt gctccttggg actctgggac ttacaccagt ggcacccctg 100  
gctcnnnnnn nnnnnaattc ggtacgaggc tgggggttcag gcgggcagca 150  
gctgcaggct gaccttgcag cttggcgga tggactggcc tcacaacctg 200  
ctgtttcttc ttaccatttc catcttcctg gggctgggcc agcccaggag 250  
cccaaaaagc aagaggaagg ggcaaggcg gcctgggccc ctggtccttg 300  
gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350  
cgcatggagg agtatgagag gaacatcgag gagatgttgg ccagctgag 400  
gaacagttca gagctggccc agagaaagtg tgaggtcaac ttgcagctgt 450  
ggatgtccaa caagaggagc ctgtctcctt ggggctacag catcaaccac 500  
gacccagcc gtatccccgt ggacctccgg aggcacggtg cctgtgtctg 550  
ggcttgtgtg aacccttca ccatgcagga ggaccgcagc atggtgagcg 600  
tgccggtgtt cagccaggtt cctgtgcgcc gccgcctctg cccgccaccg 650  
ccccgcacag ggccttgccg ccagcgcgca gtcattggaga ccatcgctgt 700  
gggctgcacc tgcattctt gaatcgacct ggcccagaag ccaggccagc 750  
agcccgagac catctcctt gcaccttgt gccaaagaag gcctatgaaa 800  
agtaaact gacttttgaa agcaaaaaa 830

FIGURE 5

cacggatgag gaccgctatc cacagaagct ggccttcgcc gagtgctgt 50  
gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgctcaac 100  
tccgtgcggc tgctccagag cctgctggtg ctgcgccgcc ggcctgctc 150  
ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200  
agttcatcca cgtccccgtc ggctgcacct 230

FIGURE 6

**FIGURE 7A**

**FIGURE 7A**

```
/home/ruby/va/Molbio/carpenda/temp/aa.out
```

59294 142 P V F S Q V P V R R R L C P P P - - - P R T G P C R Q R A V M E T I A V G C T C I F  
62377 150 R L L Q S L L V L R R R P C S R D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V

**FIGURE 7B**

1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.



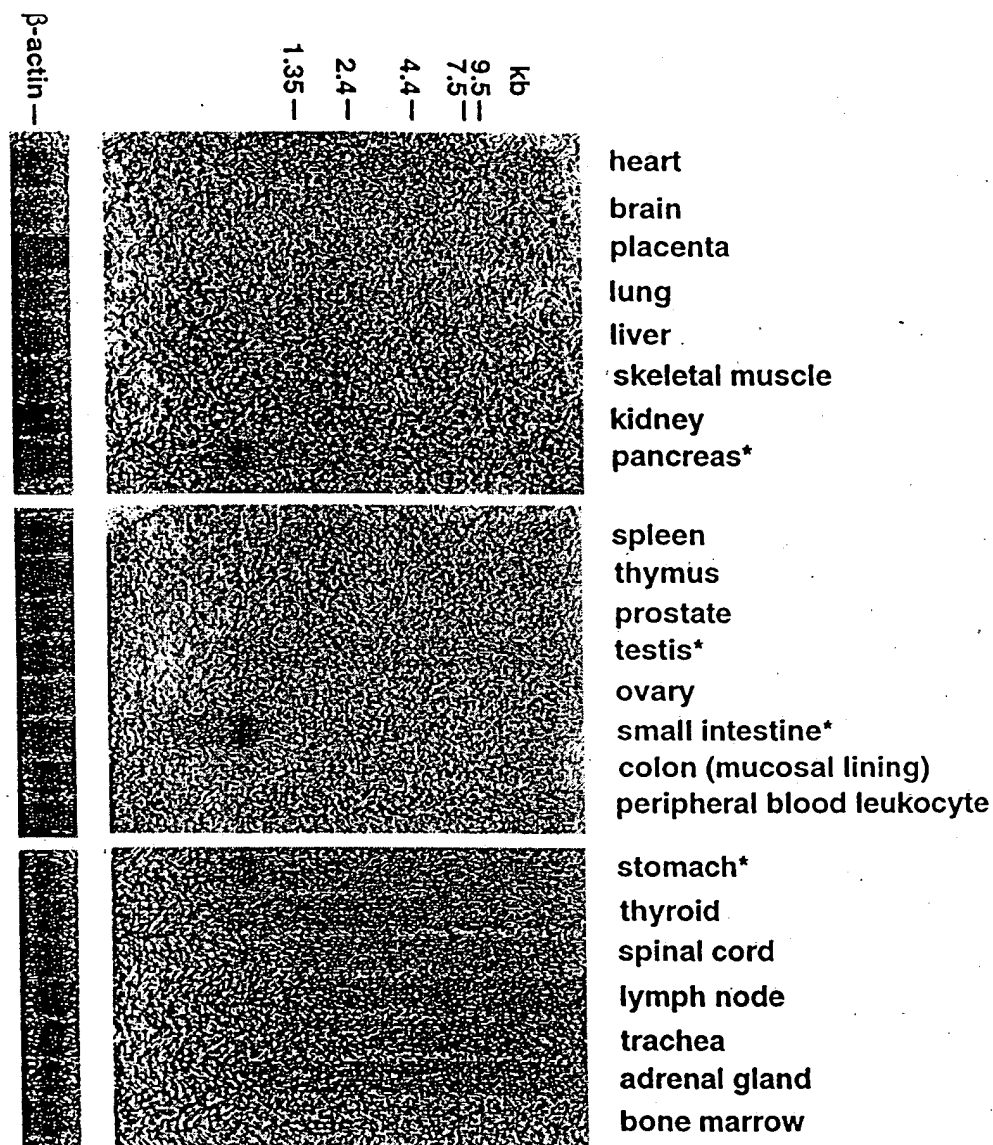
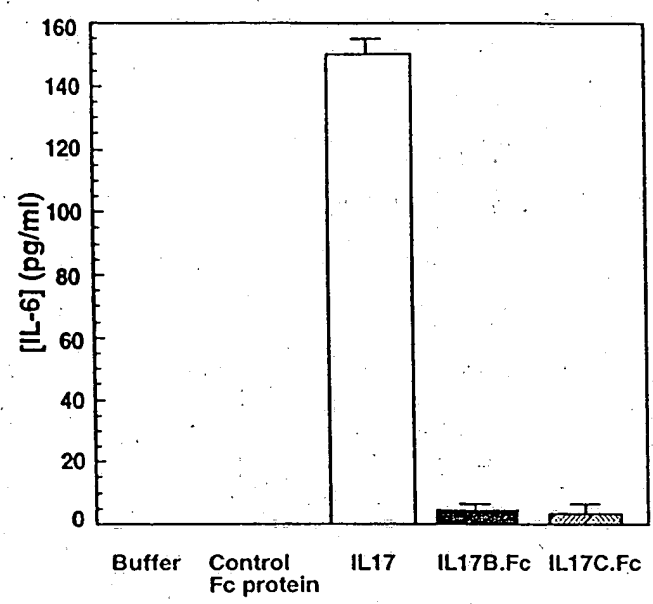


FIGURE 8

00054250.051001

100750-08275860

A. HFF cells



B. THP1 cells

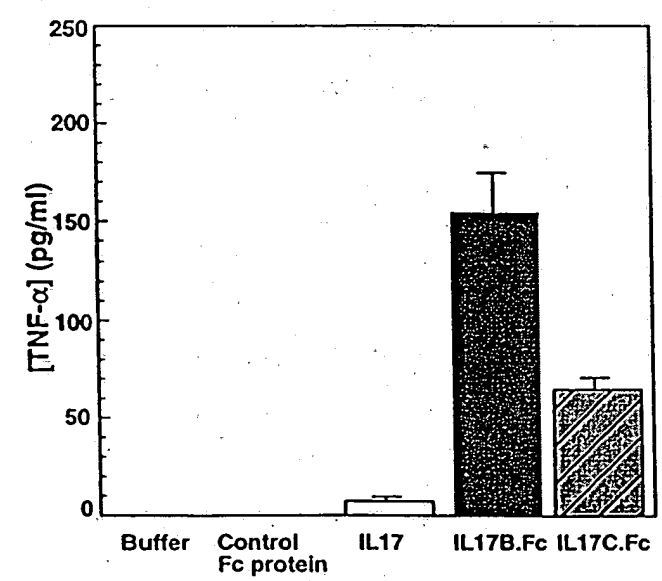
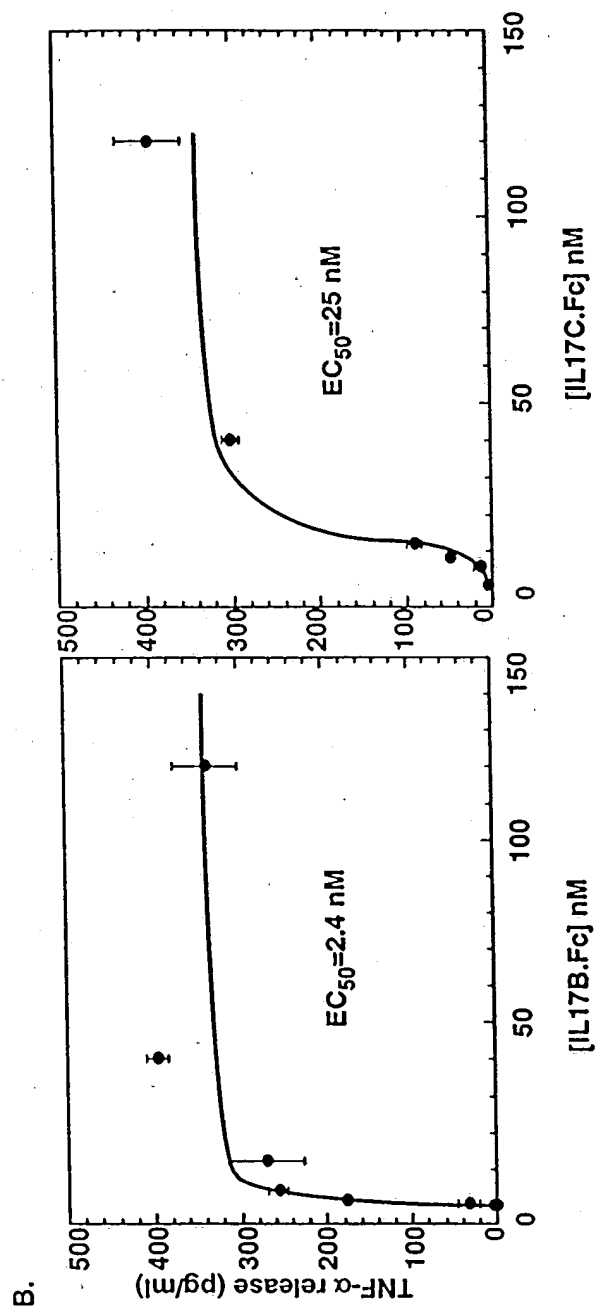
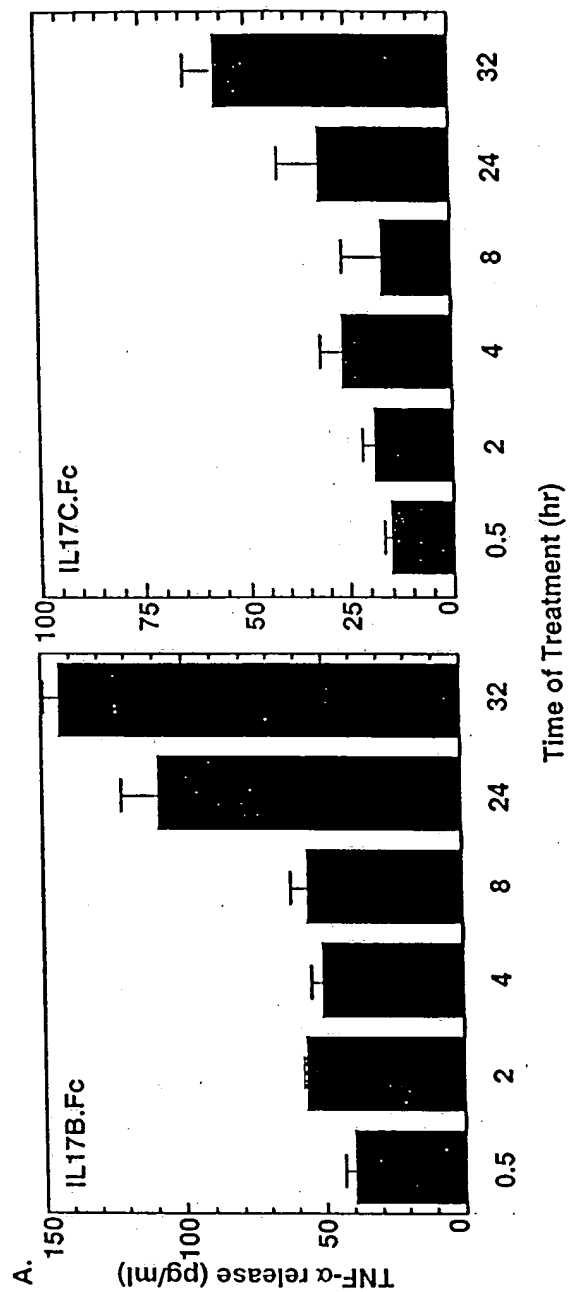


FIGURE 9

FIGURE 10



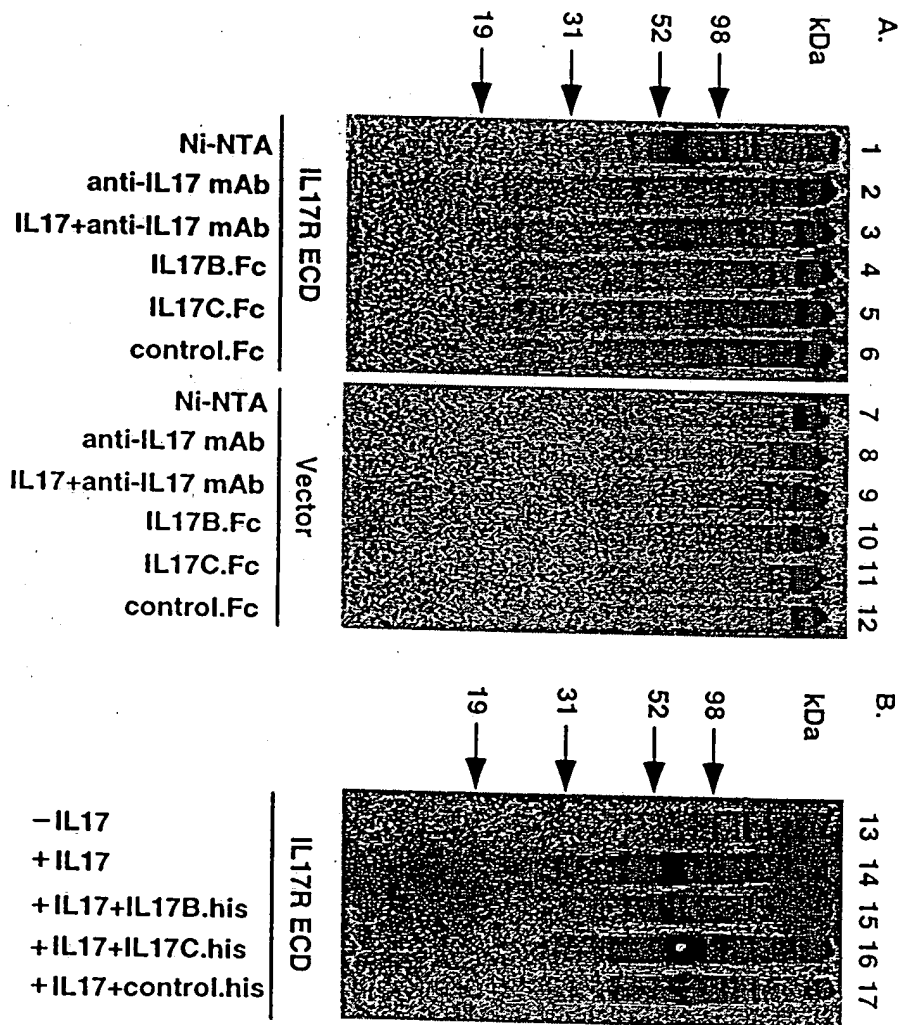


FIGURE 11

00054280.054001

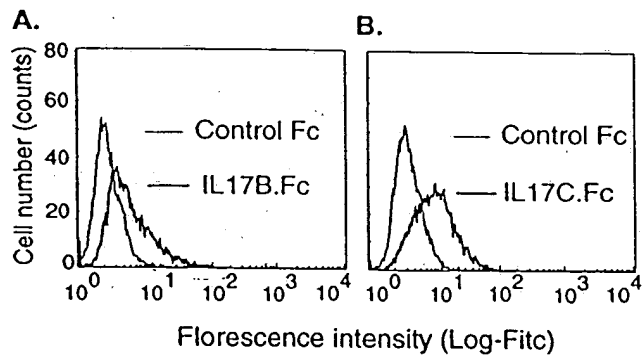


FIGURE 12

# IL-17 induces breakdown and inhibits synthesis of cartilage matrix

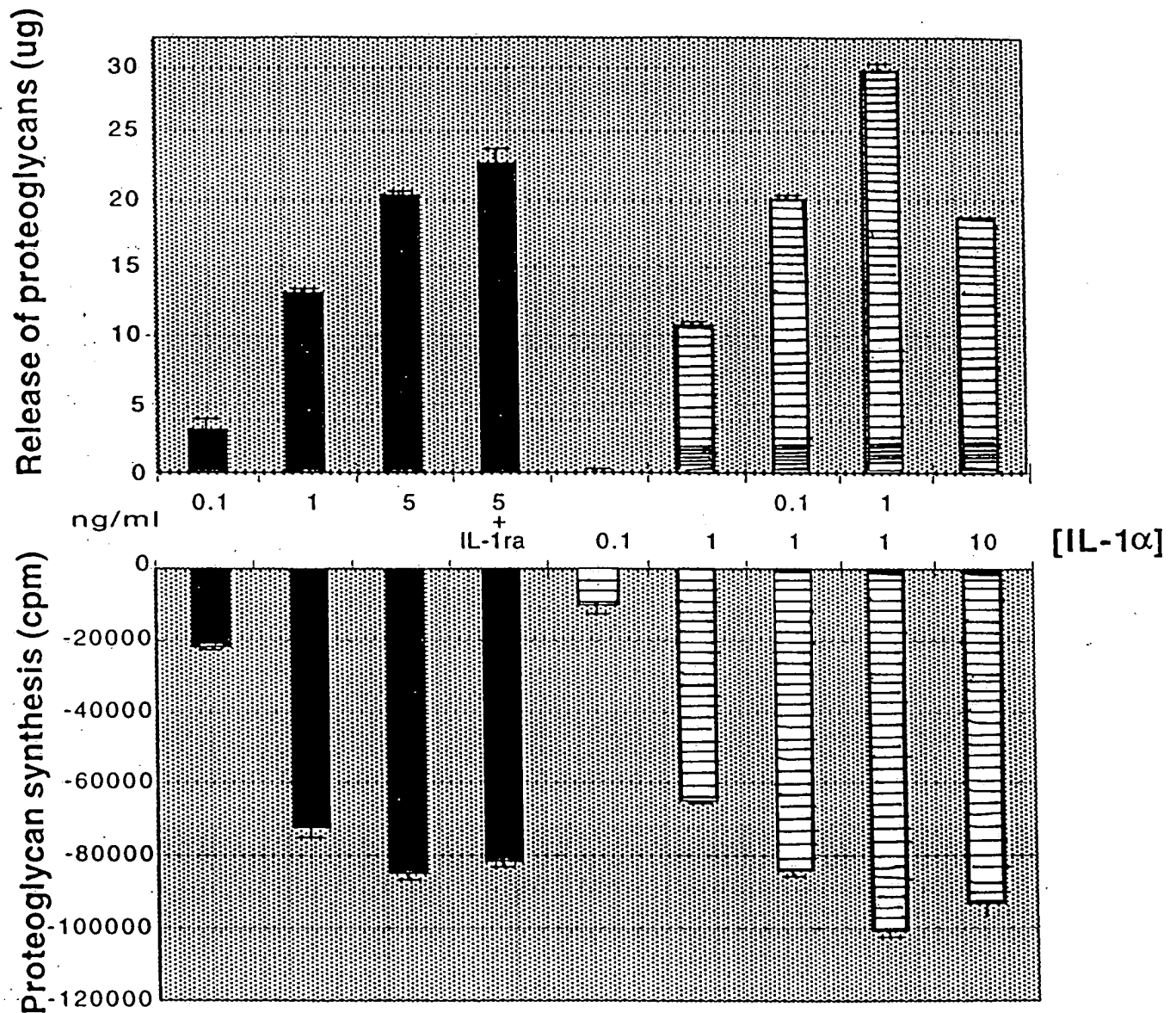


FIGURE 13

IL 17 increases basal and  
IL-1 $\alpha$ -induced nitric oxide release

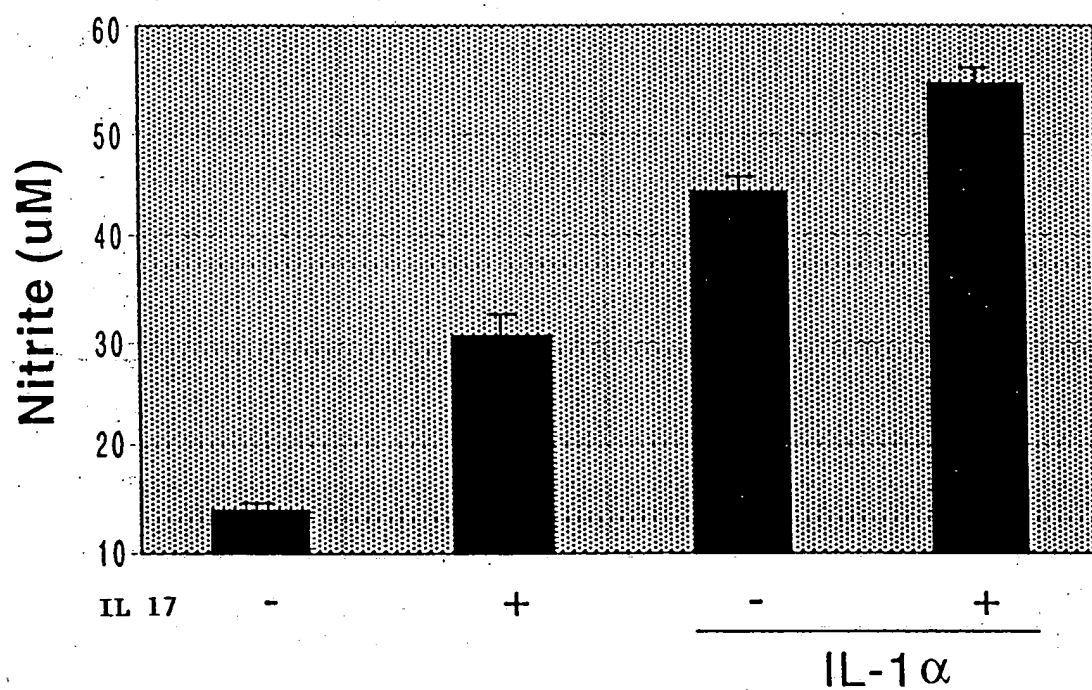
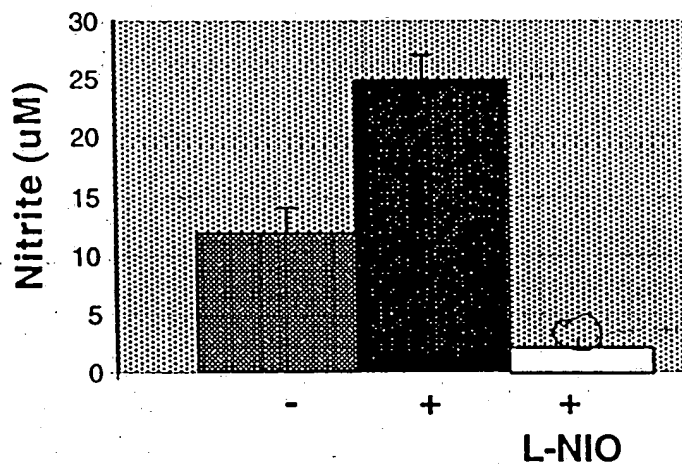


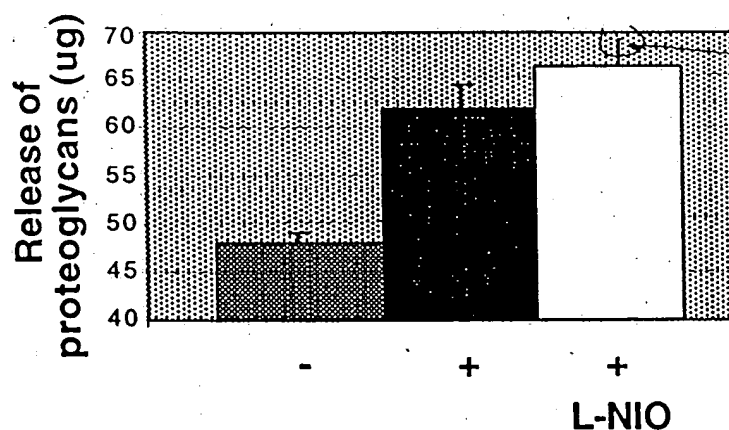
FIGURE 14

# Inhibition of nitric oxide release does not block the detrimental effects of IL 17 on matrix breakdown or synthesis

A.



B.



C.

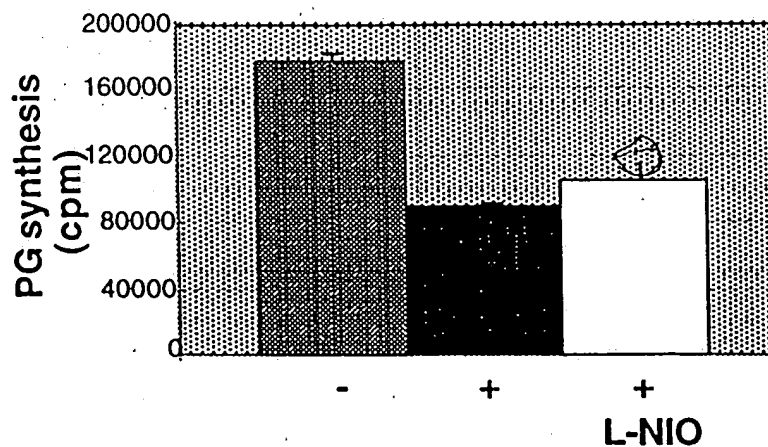


FIGURE 15



INHIBITION of NO release enhances  
IL-1- $\alpha$ -induced matrix breakdown  
but not matrix synthesis

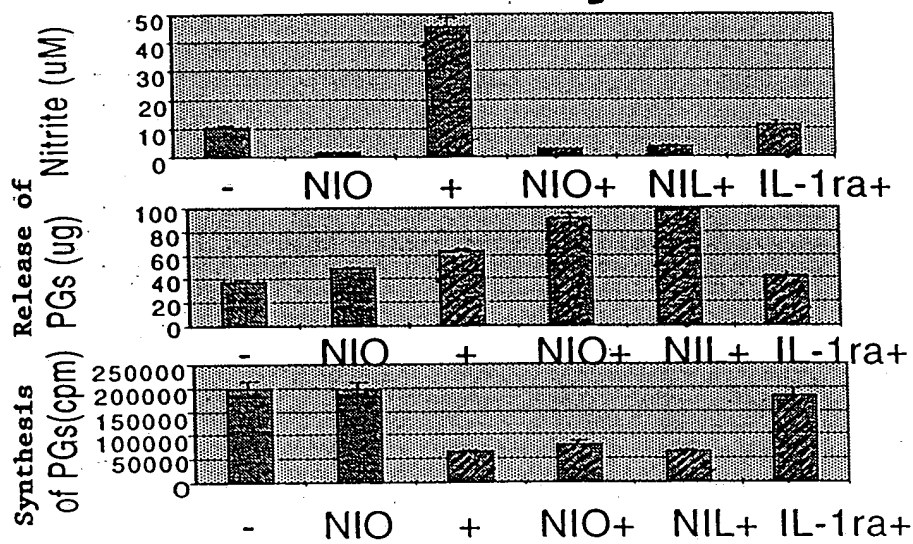


FIGURE 16

200450 03215800

IL 17 homologue 1 (UNQ516)  
has positive effects on  
articular cartilage

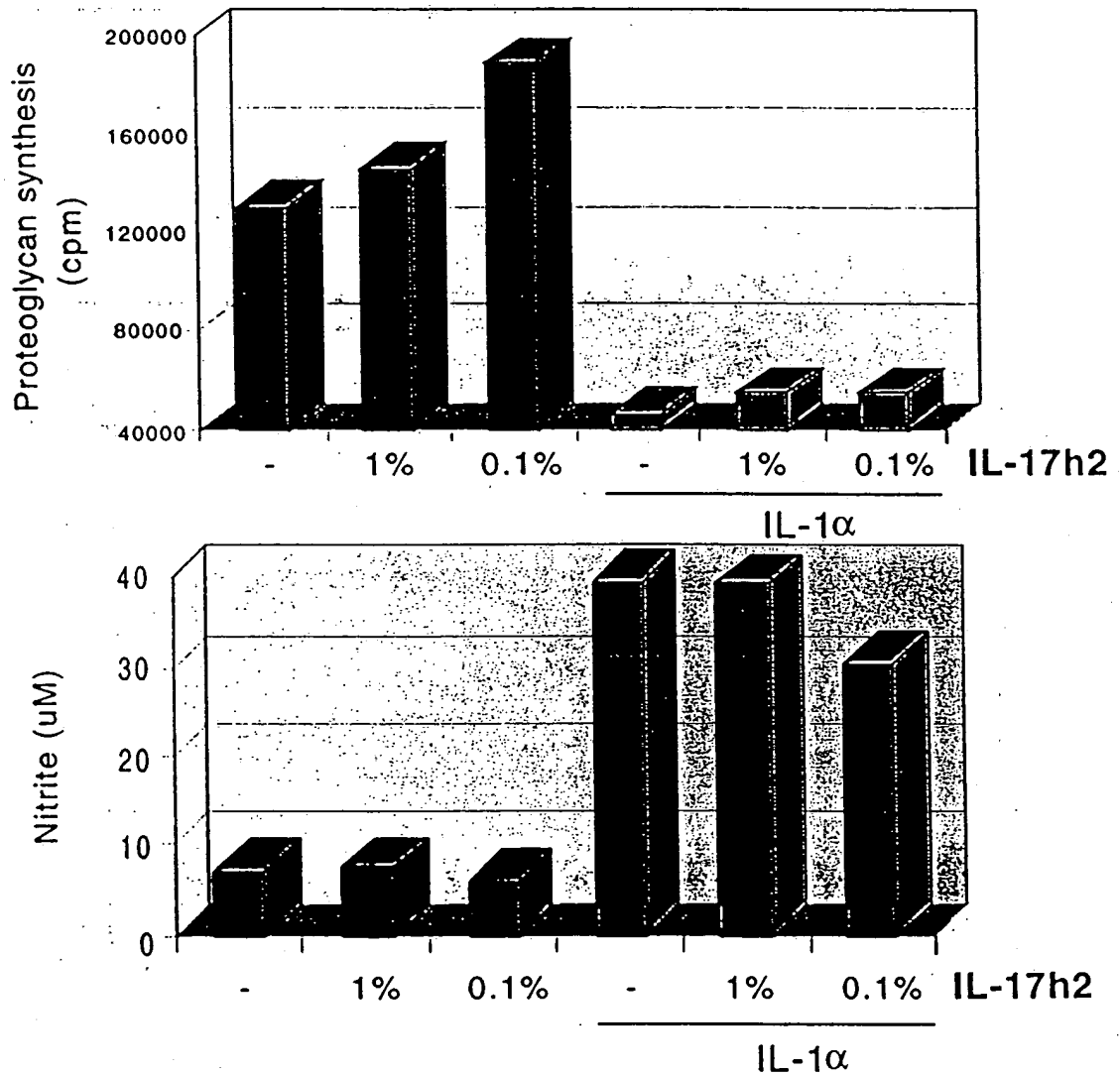


FIGURE 17

# IL 17 homologue (UNQ 561) has detrimental effects on articular cartilage

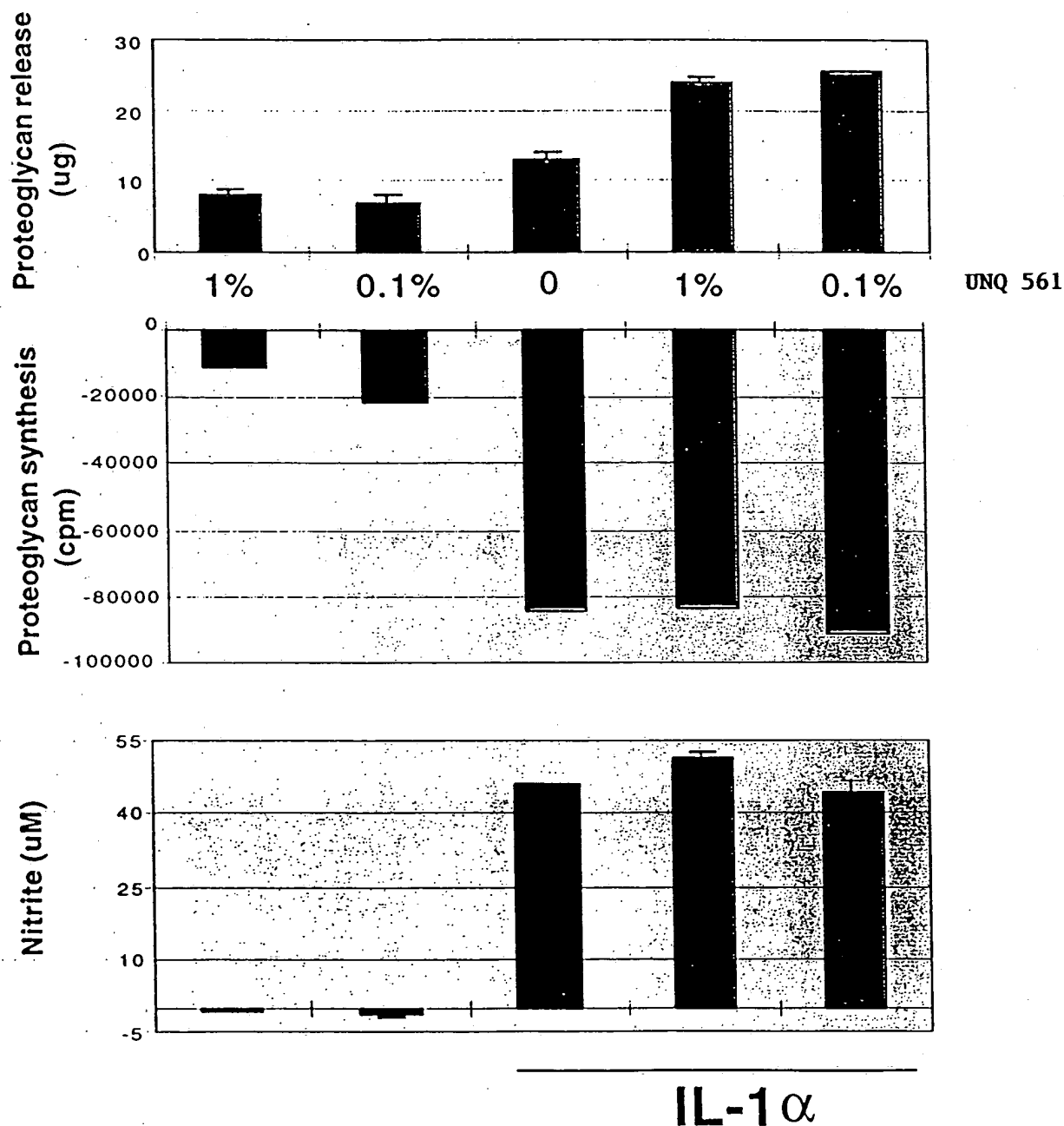


FIGURE 18